

- Loudness Metadata shall be set to indicate -23 LUFS (for programmes that have been normalised to that level, as is recommended); loudness Metadata shall always indicate the correct value for programme loudness even if for any reason a programme may not be normalised to -23 LUFS.

Note: UEFA is not mixing against a specific Loudness Range due to the specific constraints of a live football match, but a Loudness dynamic range will be targeted which complies with the requirement of adding commentary on top of the MCIS/TVIS mix.

GUIDELINES FOR AUDIO PRODUCTION TEAMS

An 'EBU Mode' loudness meter as defined in EBU Tech Doc 3341 offers 3 distinct time scales:

- Momentary Loudness (abbreviated "M") – time window: 400 ms
- Short-term Loudness (abbreviated "S") – time window: 3 s
- Integrated Loudness (abbreviated "I") – from 'start' to 'pause'

For live broadcasts like football the short time integration loudness is the best indication for loudness. If mixing the key signal (s) in the main out according to Short Term specs (3 sec integrating time), Program Loudness targets automatically OLU within +-1LU tolerance. Following guidelines below, will help achieving the desired program loudness target.

- Do not change general Level structure just because content (show, crowd) gets louder or lower
- Mix within the "comfort zone" following the AES study from 2009 about acceptable loudness
 - +5LU to -8LU for 95% (comfort zone)
 - +3LU to -6LU for 50%
- Program (Integrated) Loudness
 - Do not pay attention to Program (integrated) Loudness during mixing
 - Use Program Loudness just as an additional indication, that mix was ok
 - Program Loudness only useful in reasonable segments, e.g. in football 1st half, halftime, 2nd half

3.2 MULTILATERAL CONTENT PRODUCTION

The guiding principle for coverage of all UEFA Nations League matches remains consistency. However, additional services will be applied to all League A matches.

These include MD-1 deliveries as well as specific multilateral running orders featuring both a Feed A and a Feed B. Specifications for these services can be found below.

3.2.1 NEWS EXCHANGE FEED

NEW EXCHANGE FEED DURATION

The duration of the news exchange feed is 15 minutes.

NEWS EXCHANGE FEED CONTENT
